

Industrial-scale storage built for Safety, Scalability, and Resilience



LONGi's New Chapter: Powering the Future with Energy Storage



Deep Integration:

Dual Advantages of Economy and Safety

Over 80% of core components self-developed & produced. Features lower system loss, optimized O&M costs, and 15-20% higher full-lifecycle economy compared with traditional long-duration energy storage solutions.



Flexible Expansion:

Modular capacity for any duration

Each 125kW/261kWh DC cabinet pairs with a 125kW AC cabinet to deliver up to 250kW of power. The system supports up to 12 DC cabinets in parallel, providing 2-24 hours of long-duration backup.



New Benchmark:

'True security demands a five-minute head start.'

TÜV Rheinland Certified — Pioneering dual monitoring of safety valves and electrolyte, advancing thermal runaway warnings to five minutes prior, redefining safety baseline at zero marginal cost.



Intelligent EMS Management:

Plug & play with preset EU grid parameters

Edge EMS factory-preset with European grid parameters, eliminating on-site commissioning, shortening delivery cycles.



Efficient O&M Design

Automatically disconnects faulty battery packs and connects expansion packs, effectively reducing manual intervention. Faulty modules can be quickly replaced, cutting O&M time by 50%.

Why Solar PV Alone is Not Enough for European Business Energy Supply

01 Severe Price Volatility

- European electricity prices are volatile; spot market prices in Europe have hit up to €1000/MWh, making business costs unpredictable.

02 Heavy Demand Charge Burden

- High demand charges during peak hours significantly increase business costs.



03 Poor Grid Stability

- Aging grid infrastructure results in poor power supply reliability and unexpected shutdown risks

04 Limited Renewable Energy Absorption

- Businesses face curtailment issues when self-installing renewable energy systems due to limited grid absorption capacity.



The Advantages of Pairing Energy Storage with PV Systems

01 Cost Reduction through Peak-Shaving

- Utilize peak-to-valley price differences, potentially reducing electricity costs by 15%-30%.

02 Optimized Demand Charges

- Smooth electricity consumption curves to reduce demand charges, avoiding high fees from excessive peak-hour usage



03 Enhanced Power Supply Reliability

- Energy storage systems serve as backup power, avoiding production interruptions.

04 Improved Renewable Energy Utilization

- Resolve solar generation-consumption time mismatch for “self-generation, self-use, and self-storage” , boosting energy efficiency.



Focusing on Safety aspect and track record



**Exceptional Track Record:
over 12GWh Deployed with Zero Thermal Runaway**

12 GWh |
Deployed

accumulative scale of products delivered and installed around the globe

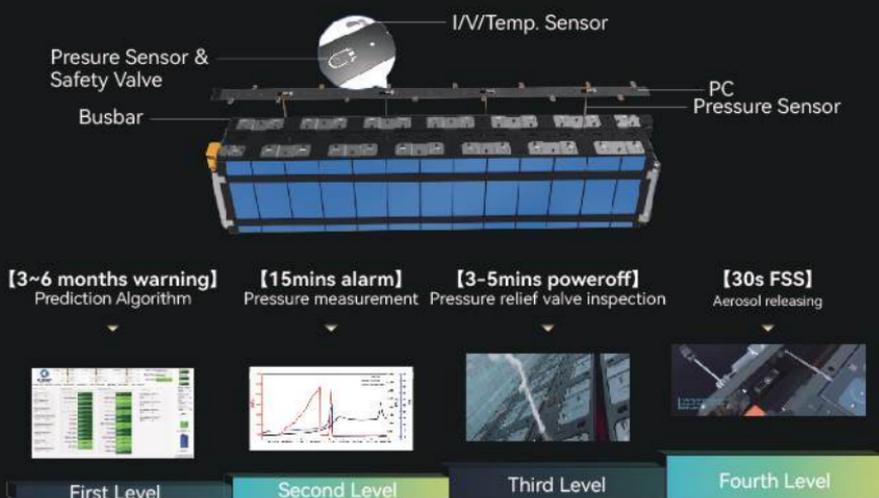
Zero |
Thermal Runaway

An impeccable safety record with zero thermal runaway accident



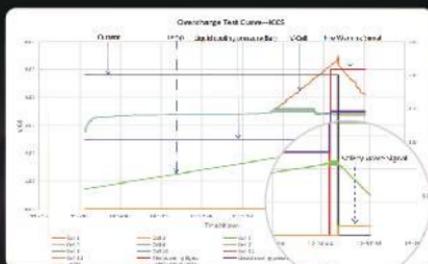
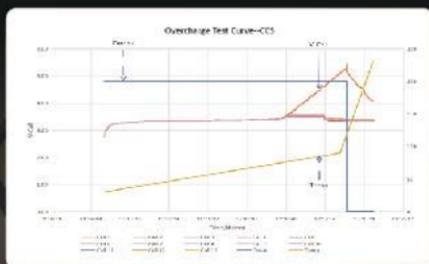
**The Sole Industrial Player Achieving Scaled
Delivery with Zero Incidents**

iCCS 3.0 Safety Solution Multi-Dimensional Protection



Comparison of iCCS and Traditional CCS

Item	iCCS	CCS	Summary
Cell Fault Detection	<ul style="list-style-type: none"> Voltage Temperature Overcurrent (FPC) 	<ul style="list-style-type: none"> Voltage Temperature Overcurrent (FPC) 	Two additional cell safety monitoring dimensions have been introduced.
Detection Technology	<ul style="list-style-type: none"> Electrolyte detection circuit Safety valve detection circuit 	None	Safety detection circuits developed by PotisEdge enhance battery cell safety monitoring.
Thermal Runaway Early Warning	<ul style="list-style-type: none"> Safety valve detection circuit 	Weak early warning capacity	Realization of early warning
Sensor Cost	<ul style="list-style-type: none"> "Zero-cost" integration 	Individual sensor costs 10-20	No additional sensors required



*As shown in Figure 1, the iCCS is equipped with safety valve sensors that detect cell venting and coordinate with the fire suppression system to enable early warning, whereas the traditional CCS (Figure 2) lacks this capability and cannot respond proactively. Overall, the iCCS outperforms the CCS in cost efficiency, reliability, and functionality.

Recognized Safety Leader in the Energy Storage Industry



Intrinsic Safety

Intrinsic safety is engineered into the cell through its materials and structure –enabling more precise monitoring and management while mitigating thermal runaway risk at its origin.



Active Equalization

Continuously monitors system operating status and proactively maintains cell-to-cell consistency, achieving superior active equalization.



Proactive Early Warning

By integrating multi-parameter monitoring with intelligent algorithms, detecting the faintest signs of failure and issues alerts before thermal runaway can occur, it is defining the industry benchmark for predictive safety.

12 GWh
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with

Zero
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An impeccable safety record with zero thermal runaway accident

Track Record

